IN THE UNITED STATES PATENT OFFICE

In Re I	Patent Application of:)		
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	Burnett et al.)	Examiner:	Not yet assigned
Applic	ation No. Not yet assigned)	Art Unit:	Not yet assigned
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Filed:	September 18, 2003)		
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For:	VAD-BASED MULTIPLE-MICROPHONE)		
	ACOUSTIC NOISE SUPPRESSION)		
Assist	ant Commissioner for Patents			
	ngton D.C. 20231			

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Sir:

Enclosed is an Information Disclosure Citation Form PTO/SB/08 together with a copy of the references cited therein. It is respectfully requested that the cited references be considered and that the enclosed copy of the Form PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant.

Pursuant to 37 CFR 1.97(h), the submission of this Information Disclosure Statement is not to be construed as an admission that the information cited in this statement is material to patentability.

This Information Disclosure Statement is being submitted pursuant to 37 CFR 1.97(b)(3).

The Commissioner is hereby authorized to charge any fees which may be required in connection with this submission to Deposit Account No. 501914.

Respectfully submitted,

SHEMWELL GREGORY & COURTNEY LLP

Dated: September 18, 2003

Registration No. 42,607

Pto/sb/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
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C mpl te if Known Substitute for form 1449A/PTO **Application Number** To be assigned INFORMATION DISCLOSURE Filing Date September 18, 2003 STATEMENT BY APPLICANT **First Named Inventor** Gregory C. Burnett Group Art Unit To be assigned (use as many sheets as necessary) To be assigned **Examiner Name** Attorney Docket Number ALPH.P010X Sheet of 2

	U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		5,212,764		Ariyoshi	05-18-1993			
		5,400,409		Linhard	03-21,1995			
		5,414,776		Sims, Jr.	05-09-1995			
		5,539,859		Robbe et al.	07-23-1996			
		5,633,935		Kanamori et al.	05-27-1997			
		5,835,608		Warnaka et al.	11-10-1998			
		5,917,921		Sasaki et al.	06-29-1999			
		6,000,396		Nagata	12-28-1999			
		6,191,724	В1	McEwan	02-20-2001			
		5,986,600		McEwan	11-16-1999			
		5,966,090		McEwan	10-12-1999			
		6,006,175		Holzrichter	12-21-1999			
		5,406,622		Silverberg et al.	04-11-1995			
		5,517,435		Sugiyama	05-14-1996			
		5,649,055		Gupta et al.	07-15-1997			
		6,266,422		lkeda	07-24-2001			
		6,430,295		Handel et al.	08-06-2002			
		5,754,665		Hosoi	05-19-1998			
		5,473,702		Yoshida et al.	12-05-1995			
		l				·		

	FOREIGN PATENT DOCUMENTS									
F	Cite No.1	F	oreign Patent Do	cument	de5 Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	\top		
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Substitu	ite for form 1449B/PTC	`		Complet if Known			
				Application Number	To be assigned		
INFORMATION DISCLOSURE		Filing Date	September 18, 2003				
STATEMENT BY APPLICANT				First Named Inventor	Gregory C. Burnett		
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	(use as many s	heet	s as necessary)	Examiner Name	To be assigned		
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		ZHAO LI et al: "Robust Speech Coding Using Microphone Arrays", Signals Systems and Computers, 1997. Conf. record of 31st Asilomar Conf., Nov. 2-5, 1997, IEEE Comput. Soc. Nov. 2, 1997, USA.	
		L.C. NG et al.: "Denoising of Human Speech Using Combined Acoustic and EM Sensor Signal Processing", 2000 IEEE Intl Conf on Acoustics Speech and Signal Processing. Proceedings (Cat. No. 00CH37100), Istanbul, Turkey, June 5-9, 2000 XP002186255, ISBN 0-7803-6293-4	
		S. AFFES et al.: "A Signal Subspace Tracking Algorithm for Microphone Array Processing of Speech". IEEE Transactions on Speech and Audio Processing, N.Y, USA Vol. 5, No. 5, Sept. 1, 1997, XP000774303, ISBN 1063-6676	
		GREGORY C. BURNETT: "The Physiological Basis of Glottal Electromagnetic Micropower Sensors (GEMS) and Their Use in Defining an Excitation Function for the Human Vocal Tract", Dissertation, University of California at Davis, January, 1999, USA.	
		L.C. NG et al.: "Speaker Verification Using Combined Acoustic and EM Sensor Signal Processing", ICASSP-2001, Salt Lake City, USA.	
		A. HUSSAIN: "Intelligibility Assessment of a Multi-Band Speech Enhancement Scheme", Proceedings IEEE Intl. Conf. on Acoustics, Speech & Signal Processing (ICASSP-2000). Istanbul, Turkev. June 2000.	
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Examiner	
Signature	Consider d

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